Coronary Heart Disease

Disease Information Packets – Slide Sets



Public Health Services,

Community Health Statistics

12/2012



What is Coronary Heart Disease?

- Coronary heart disease (CHD) is the most common heart condition under the broad description of heart disease in the United States.
- Caused by atherosclerosis –
 narrowing of the small blood vessels
 that supply blood and oxygen to the
 heart due to plaque (fatty deposits).
 - Impaired blood flow can cause death of the heart muscle from lack of oxygen.
- CHD can also cause:
 - Heart Attack
 - Heart Arrhythmia (irregular heartbeat)
 - Heart Failure
 - Sudden Cardiac Death





Demographic Risk Factors

- Age
 - About 82% of people who die from CHD are 65 or older.
- Gender
 - Men are more likely than women to have CHD.
- Heredity/Genetic factors
 - Risk of CHD increases 2-3 times if a close relative has the disease.
- Race/ethnicity
 - Blacks and Hispanics are at a higher risk for developing CHD than whites.
- Socio-economic Status
 - Those of low socioeconomic status are at a higher risk for developing
 CHD than those of high socioeconomic status.



Behavioral and Social Risk Factors

High blood pressure

 B.P. ≥ 140 mmHg/90 mmHg increases the risk of CHD.

High blood cholesterol

About 1 of every 3 adult
 Americans has high blood cholesterol.

Diabetes Mellitus

 At least 3 out of 4 people with diabetes die from heart or blood vessel disease.





Behavioral and Social Risk Factors

- Sedentary lifestyle / Obesity
 - Obesity is a major risk factor for CHD.
 - About 75 million adults are obese.
- Tobacco use
 - Smoking cigarettes contributes to the development of atherosclerosis.
 - The risks of CHD and sudden cardiac death are higher among smokers than non-smokers.
- Poor nutrition
- Poor medical care
- Stress, depression





Intermediate Outcomes

- Stroke
 - A diseased heart increases the risk of stroke.
- Angina pectoris
 - Causes chest pain or discomfort from reduced blood supply to the heart.
- High blood pressure
- High cholesterol
- Diabetes





National Statistics

- 49.7% of U.S. adults aged ≥20 years (an estimated 107.3 million persons) have at least one of the three leading risk factors for CHD. (Valderrama, 2011)
- Coronary heart disease caused 1 of every 6 deaths in the United States in 2008. (AHA)
- In 2007, one-quarter of all deaths (616,000) were from diseases of the heart. (Xu, 2010)



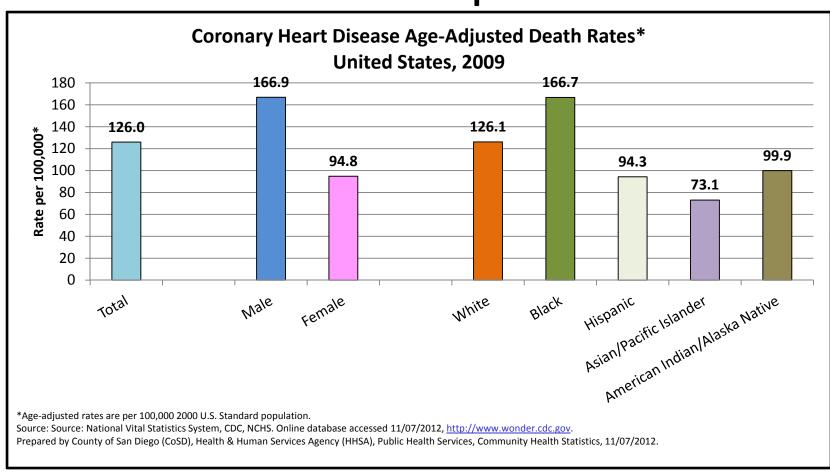
National Disparities

 In the United States, the rate of death due to heart disease in 2006 was highest in Mississippi and lowest in Minnesota. Top 5 States with Highest Heart Disease Death Rates, United States, 2000-2006

- 1. Mississippi
- 2. Oklahoma
- 3. Alabama
- 4. West Virginia
- 5. Kentucky

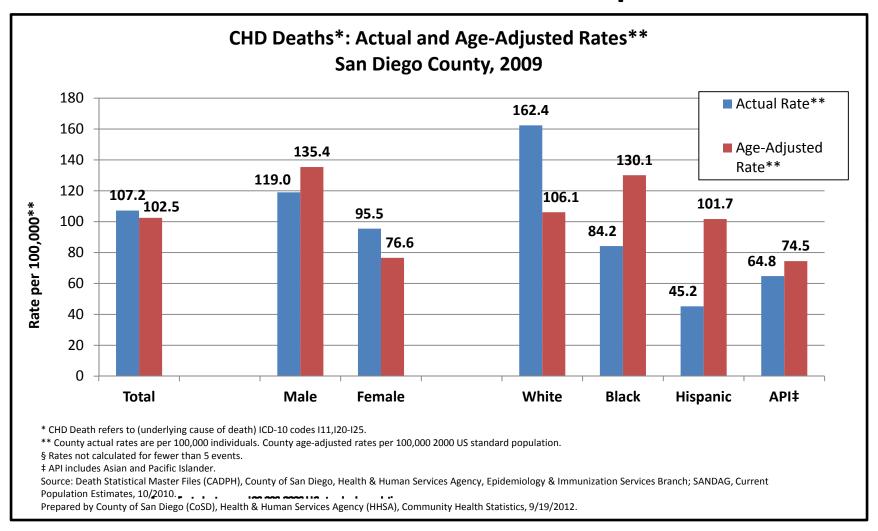


National Disparities

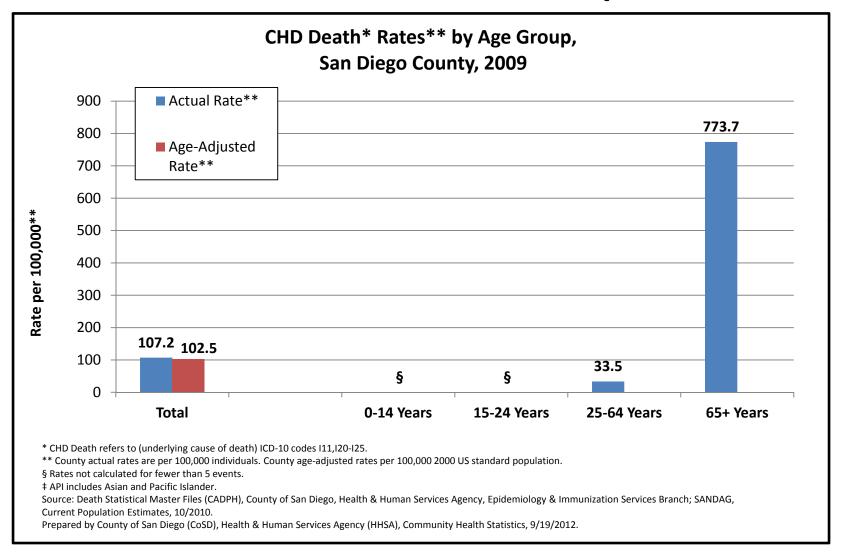


In 2009, the age-adjusted death rate from CHD was highest for blacks, followed by whites, and higher for men than women.

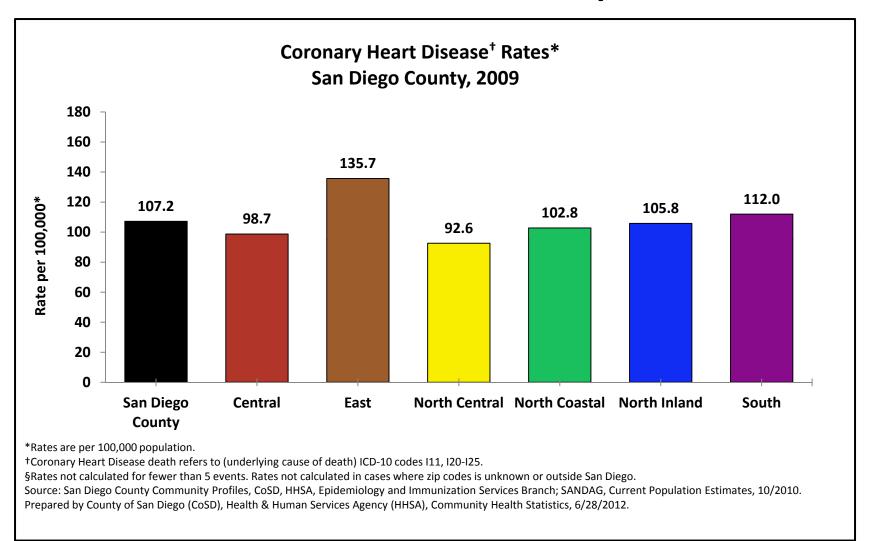




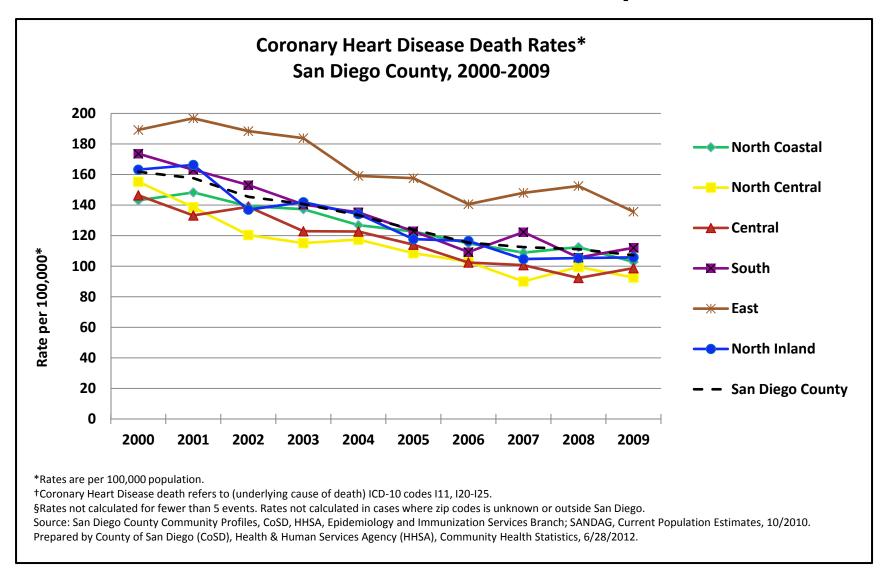














Disease Prevention

- Avoid smoking
- Be physically active
- Control weight
- Eat healthy foods
- Avoid excessive alcohol consumption
- See a doctor regularly to:
 - Monitor cholesterol level
 - Check blood pressure
 - Control diabetes





Know the 5 Major Symptoms of a Heart Attack

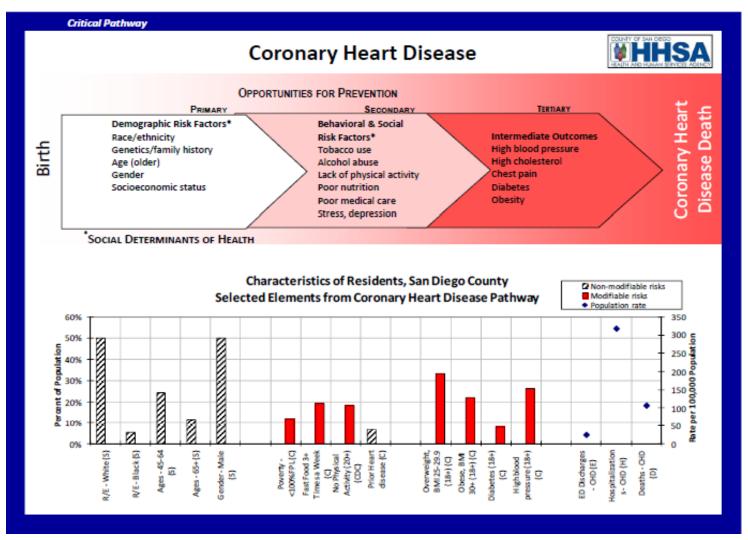
- 1. Pain or discomfort in the jaw, neck, or back
- 2. Feeling weak, light-headed, or faint
- 3. Chest pain or discomfort
- 4. Pain or discomfort in arms or shoulder
- 5. Shortness of breath

If you think that you or someone you know is having a heart attack, call 9–1–1 immediately.





Critical Pathway for Coronary Heart Disease





Contact Us

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Health and Human Services Agency
Public Health Services
Community Health Statistics
(619)285-6479

www.SDHealthStatistics.com

